

COUNTRY/AUTHORITY : US
IDENTIFIER : PLP 20050010981 P1
LATIN NAME : FRAGARIA X ANANASSA
COMMON NAME : strawberry
DENOMINATION/proposed : 2003.07.07 CARMINE
DENOMINATION/published : 2005.01.13 CARMINE
APPL./FILING NUMB. : 10613317
APPL./FILING DATE : 2003.07.07
APPLICANT : Chandler, Craig K.
Dover, FL, US
BREEDER : Chandler, Craig K.
Dover, FL, US
TITLE HOLDER : Chandler, Craig K.
Dover, FL, US

* * * * *

Refine Search

Search Results -

Terms	Documents
(Strawberry adj plant) and Carmine	6

Database:

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L2 (Strawberry adj plant) and Carmine

6 L2

L1 (Fragaria or Fragaria adj ananassa or Fragaria adj x adj ananassa or
 Strawberry or Strawberries) and Carmine

345 L1

END OF SEARCH HISTORY

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DIALOG 7/6/05

Set	Items	Description
S1	56745	FRAGARIA OR FRAGARIA ANANASSA OR FRAGARIA X ANANASSA OR ST-RAWBERRY OR STRAWBERRIES
S2	36	S1 AND CARMINE

2/9,K/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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Strawberry cultivars grown under protected structure and their susceptibility to natural infestation of the cotton aphid, *Aphis gossypii* Glover.

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JOURNAL: Hortscience 38 (5): p806 August 2003 2003

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ISSN: 0018-5345 (ISSN print)

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The cotton aphid, *Aphis gossypii* Glover (Homoptera: Aphididae), is one of the most important greenhouse pests worldwide. This soft-bodied insect secretes honeydew, which results in a sooty mold that blocks the photosynthetic leaf area reducing the growth capability of the plant, and potentially causing yield reduction. In order to determine the susceptibility of the ***strawberry*** (*FragariaXananassa* Duch.) to natural infestation of the cotton aphid in a passive ventilated greenhouse, seven ***strawberry*** cultivars were grown and evaluated. The cultivars Carmine, Festival, Camarosa, Treasure, Sweet Charlie, Earlibrite and FL 97-39 were planted at a density of 22 plants per m². No insecticide was used. Ten ***strawberry*** leaflets were selected at random, and the total number of aphids per leaflet was counted weekly. Five releases of *Aphidius colemani* L. and one of *Lysiphlebus testaceipes* L. at an approximately rate of 200 wasps per 18 m row were made. 'Sweet Charlie' and 'Carmine' sustained the greatest average number of aphids per leaflet throughout all the growing season; while 'FL97-39' and 'Camarosa' had the lowest number of aphids per leaflet. The population dynamics of the aphid continued to rise in all cultivars from late November to mid- January; however, 95% aphid control was achieved by the end of February. The yield for 'FL 97-39' was the greatest, which correlated with the lowest number of aphids per leaflet throughout the season; however that cultivar had the greatest susceptibility to powdery mildew.

DESCRIPTORS:

MAJOR CONCEPTS: Economic Entomology; Horticulture--Agriculture; Infection ; Pest Assessment Control and Management

BIOSYSTEMATIC NAMES: Homoptera--Insecta, Arthropoda, Invertebrata, Animalia; Hymenoptera--Insecta, Arthropoda, Invertebrata, Animalia;

Rosaceae--Dicotyledones, Angiospermae, Spermatophyta, Plantae

ORGANISMS: *Aphis gossypii* {cotton aphid} (Homoptera)--pest; *Aphidius colemani* (Hymenoptera)--biocontrol agent; *Lysiphlebus testaceipes* (Hymenoptera)--biocontrol agent; *Fragaria x ananassa* { strawberry} (Rosaceae)--host, small fruit crop, cultivar-Camarosa, cultivar-Carmine, cultivar-Earlibrite, cultivar-FL 97-39, cultivar-Festival, cultivar-Sweet Charlie, cultivar-Treasure

ORGANISMS: PARTS ETC: honeydew--secretion

COMMON TAXONOMIC TERMS: Animals; Arthropods; Insects; Invertebrates; Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants

DISEASES: powdery mildew--fungal disease; sooty mold-fungal disease

MISCELLANEOUS TERMS: cultivar variation; greenhouse; natural infestation susceptibility; protected structure; Meeting Abstract
CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings
36008 Medical and clinical microbiology - Mycology
53006 Horticulture - Small fruits
53012 Horticulture - Miscellaneous and mixed crops
54502 Phytopathology - Diseases caused by fungi
54600 Pest control: general, pesticides and herbicides
60002 Economic entomology - General
60006 Economic entomology - Fruits and nuts
60014 Economic entomology - Biological control
64076 Invertebrates: comparative, experimental morphology, physiology and pathology - Insecta: physiology

BIOSYSTEMATIC CODES:

75324 Homoptera
75326 Hymenoptera
26675 Rosaceae

Strawberry cultivars grown under protected structure and their susceptibility to natural infestation of the cotton aphid...

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...host, small fruit crop, cultivar-Camarosa, cultivar- ***Carmine***, cultivar-Earlibrite, cultivar-FL 97-39, cultivar-Festival, cultivar-Sweet Charlie, cultivar-Treasure